



Tempe Area Drainage Master Study

Project Description

Within the last five years, there have been multiple significant storm events causing extensive street drainage problems and flooding of several neighborhoods in the City of Tempe (City). Although Tempe is nearly built-out, the advent of the light rail, ASU expansion plans, and the attraction of the Tempe Town Lake is expected to lead to major redevelopment of portions of the City. As a response to projected growth and regulatory requirements, the City is considering implementation of various green infrastructure and low impact design techniques such as part of the new General Plan 2040. The Arizona Department of Transportation also has several large drainage infrastructure projects related to the freeways throughout this region, many of which are undersized and will require major investments in advance of projected freeway projects. In response to these issues, the Flood Control District of Maricopa County (District) recognized a need to assess flooding in the area, and has initiated the Tempe Area Drainage Master Study and Plan (Tempe ADMS/P) to identify flood hazards and develop any needed flooding mitigation solutions.

The study area is bounded by the Salt River (north), Loop 101 (east), SR 202 (south) and I-10 (west). The study includes approximately 45 square miles located primarily within the City of Tempe with portions in the Cities of Phoenix and Chandler as well as the Town of Guadalupe. The first phase of the study includes data collection, development of a comprehensive two-dimensional hydrology model with integrated storm drain analytics, and preparation of a Flood Hazard Assessment with estimates of economic damages caused by flooding. An extensive stakeholder coordination and public outreach effort will be incorporated to help compile information (records and anecdotes, dated photos and videos of flooding and drainage incidents, and any other historic information available) as well as to help focus on acceptable mitigation alternatives.

To facilitate collection of flooding incidence information, the District has developed a web-based tool called Report A Flood (www.ReportAFlood.org). The tool includes an interactive map of the county and allows anyone to locate a point on the map and upload photos or videos of flooding events that occurred at that location.

Status

The District initiated the ADMS in June 2013, and data collection is currently underway. Development of the regional hydrology model is scheduled to begin in September and should be complete by June 2014. The Flood Hazard Assessment will be finished by November 2014.

Contact

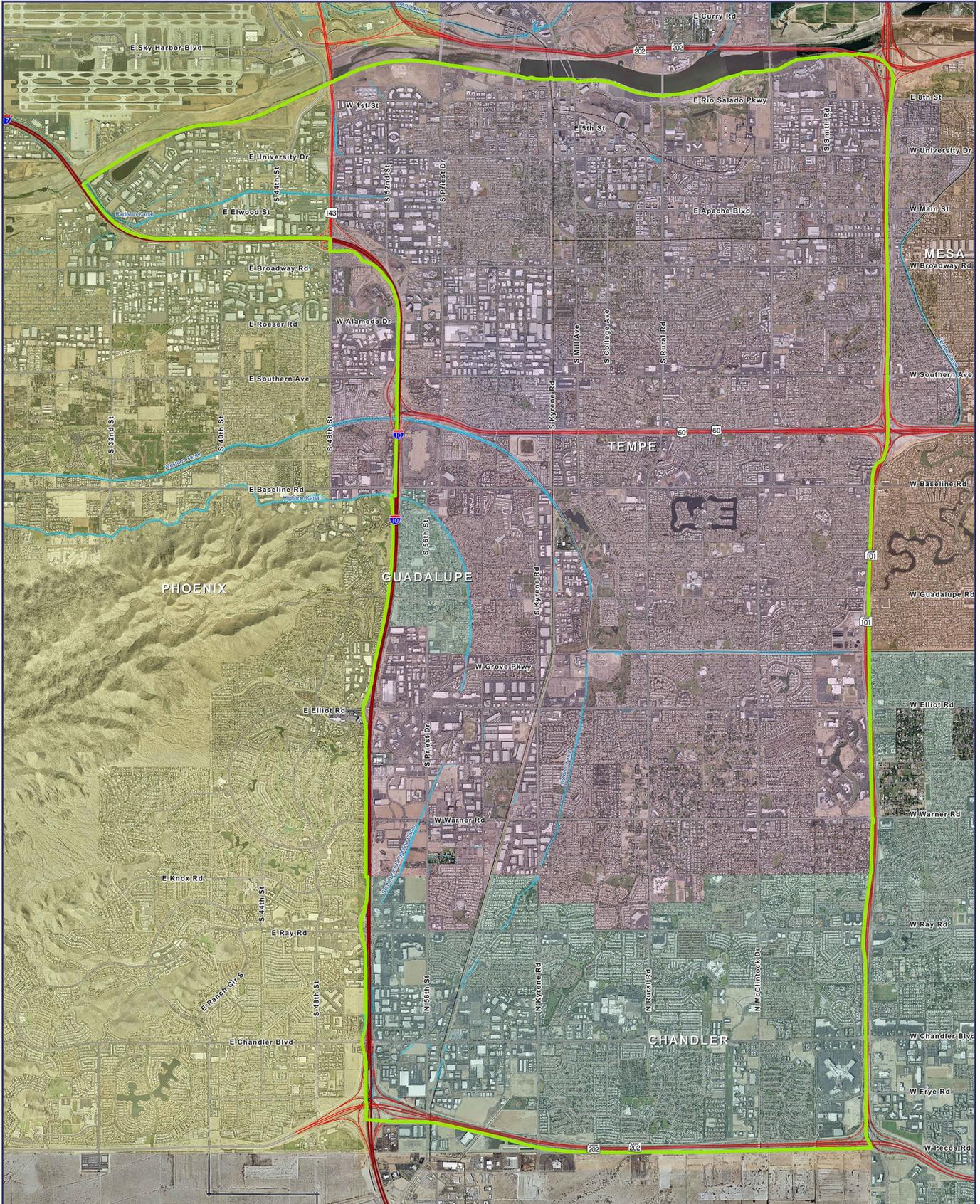
Burke Lokey, P.E., CFM, PMP

Project Manager

602-506-0867

burkelokey@mail.maricopa.gov

Tempe Area Drainage Master Study



 Tempe ADMS/P Study Boundary
 Canal